FY2006

MISSISSIPPI ARMY AMMUNITION PLANT

MISSISSIPPI

INSTALLATION ACTION PLAN

Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year environmental cleanup program for an installation. The plan will define all the Army's cleanup program requirements and propose a comprehensive approach and associated costs to conduct future investigations and remedial action at each cleanup site."

The sub-section will include a description of the coordination actions and participation of all parties that contributed to the IAP. This section lists the dates of the workshop and participants.

The Army encourages regulator and public participation in the preparation and updating of IAPs for DERP. When regulators and the public (i.e., a RAB or TRC) participate in the IAP process or the installation furnishes a copy of their IAP to regulators and the public, the IAP will contain a statement of that fact.

The following agencies contributed to the formulation and completion of this Installation Action Plan:

EEI for USAEC
MSAAP
Headquarters, Joint Munitions Command

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Acronyms & Abbreviations

AAP	Army Ammunition Plant
AMCCOM	US Army Armament, Munitions, and Chemical Command
BRAC	Base Realignment and Closure
CMS	Corrective Measures Study
CSC	Computer Services Corporation
CTC	Cost-to-Complete
DERP	Defense Environmental Restoration Program
DERA	Defense Environmental Restoration Account
DSERTS	Defense Site Environmental Restoration Tracking System
EE/CA	Engineering Evaluation/Cost Analysis
EMTF	Energetic Materials Test facility
ER,A	Environmental Restoration, Army (formally called DERA)
FS	Feasibility Study
FY	Fiscal Year
HRR	Historical Records Review
IAP	Installation Action Plan
ICM	**I**mproved Conventional Munition
IRA	Interim Remedial Action
IRP	Installation Restoration Program
LTM	Long Term Management
MMRP	Military Munition Response Program
MSAAP	Mississippi Army Ammunition Plant
MTI	Mason Technologies Inc.
NASA	National Aeronautical and Space Administration
NAVSCIATTS	Navy Small Craft Instruction and Technical Training School
NPL	National Priorities List
RA	Remedial Action
RA(C)	Remedial Action - Construction
RA(O)	Remedial Action - Operation
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy in Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
TRC	Technical Review Committee
USAEC	United States Army Environmental Center
UXO	Unexploded Ordnance

Installation Information

INSTALLATION LOCALE: Mississippi AAP is located on the northern portion of NASA's Stennis Space Center. Stennis is located in the southwest corner of Mississippi, about 50 miles northeast of New Orleans, Louisiana, and 30 miles from the Mississippi Gulf Coast.

INSTALLATION MISSION: Mississippi AAP was first established as the only ammunition plant where total M483A1 ICM 155mm howitzer projectile and grenade bodies were produced and assembled into live projectiles.

Mississippi AAP is now a semi-active ammunition plant. Through a facility use contract, the plant is available to the private sector to provide or produce commercial services and products. Mississippi is a government-owned, contractor-operated installation.

COMMAND ORGANIZATION:
MAJOR COMMAND: U.S. Army Materiel Command
MAJOR SUBORDINATE COMMAND: U.S. Army Field Support Command/U.S. Army Joint Munitions Command

REGULATOR PARTICIPATION:
Federal: Not applicable
State: Mississippi Department of Environmental Quality

LEAD EXECUTOR: U. S. Army Joint Munitions Command is administratively responsible

NPL STATUS: MSAAP does not have NPL status.

RAB/TRC/TAPP STATUS: Lack of outstanding cleanup issues or activities does not warrant establishment of a RAB.

PROGRAM SUMMARIES:
MMRP
Contaminants of Concern: UXO
Media of Concern: Soil
Estimated date for RIP/RC: 2032
Funding to Date: (up to FY05): $25,000
CTC: $8,046,000

Cleanup Program Summary

HISTORIC ACTIVITY: In 1978, the Army leased 7148.6 acres from the National Aeronautical and Space Administration (NASA) to construct and operate the Mississippi AAP. Primary explosive test activities were performed at the Mississippi AAP by the NASA technical support contractor, Computer Sciences Corporation (CSC) for the U.S. Army Armament, Munitions, and Chemical Command – Dover, New Jersey (AMCCOM-D) from 1969 until 1991. CSC conducted a variety of explosives, propellants, and pyrotechnics tests at the area known as the Old Kellar Test Range until August 1980. When the Mississippi AAP was established, the Old Kellar Test Range operations were moved to the Hazards Test Range as area east of the Old Kellar Test Range. This site is also referred to as the Energetic Materials Test Facility (EMTF). The U.S. Army continued their operations and testing at this site until August 1991. In 1989, the lease agreement between the Department of the Army and NASA concerning the Mississippi AAP property was amended. The amendment included the return of 1,808 acres to NASA, including the EMTF site. The Old Kellar Test Range is still located within the boundaries leased to the Department of Defense for the Mississippi AAP.

There were three separate manufacturing complexes at Mississippi AAP; the Projectile Metals Parts Area, the Load Assemble and Pack Area and the only remaining mission area the Cargo Metal Parts area. The Facility is operated, since the beginning, by Mason Technologies Inc. (A Day & Zimmermann Company).

Mississippi AAP was the first and only ammunition plant to be built by the Army after the Korean War. It was capable of producing 120,000 packaged rounds per month of the M483 155-mm artillery ammunition, an improved conventional munition (ICM). The M483 is a dual-purpose projectile for the 155-mm Howitzer using anti-armor/anti-personnel controlled M42 and M46 grenades. In 1990, production ceased and the plant is now semi-active.

The Mississippi AAP leases space to government and commercial tenants. Current tenants include: U.S. Navy, Boeing, Pratt Whitney, Ionatron, Power Dynamics, Schaffer's at Stennis, Planning Systems, Department of Energy, Cingular, Oologah Technologies, Graebel/New Orleans Movers, NAVSCIATTS and SBT22.

CURRENT ACTIVITY: Mississippi AAP is now a semi-active ammunition plant. Through a facility use contract, the plant is available to the private sector to provide or produce commercial services and products. Mississippi is a government-owned, contractor-operated installation.

PROGRAM PROGRESS:

MMRP: There are two MMRP sites at MSAAP. It is anticipated that funds will be programmed for SI execution effort in FY07.

Mississippi Army Ammo Plant

MILITARY MUNITIONS RESPONSE PROGRAM

MMRP Summary

STATUS: Non-NPL

AEDB-R SITES/SITES RC: 2/0

AEDB-R SITE TYPES: 2 Unexploded Munitions/Ordnance

CONTAMINANTS OF CONCERN: UXO

MEDIA OF CONCERN: Soil

COMPLETED REM/IRA/RA: None

IDENTIFIED POSSIBLE REM/IRA/RA: RA at MSAAP-001-R-01 and MSAAP-002-R-01

TOTAL ER,A FUNDING:

PRIOR YEAR	$25,000
CURRENT	None
FUTURE	$8,046,000

DURATION OF IRP:

YEAR OF MMRP INCEPTION:	2003
YEAR OF RA COMPLETION:	2032
YEAR OF MMRP COMPLETION:	2047

MMRP Contamination Assessment

The Phase 3 Army Range Inventory was completed at Mississippi AAP in Dec 03. The inventory identified two sites as eligible for the MMRP, the Spin Launch Site and the Old Kellar Test Range. The Phase 3 Inventory serves as the Preliminary Assessment under CERCLA. A Site Inspection is scheduled in FY07.

Mississippi Army Ammo Plant

MILITARY MUNITIONS RESPONSE PROGRAM

SITE DESCRIPTIONS

MSAAP-001-R-01
OLD KELLAR TEST RANGE

SITE DESCRIPTION

Old Kellar Test Range is in the central portion of the MSAAP. The NASA Technical Support Contractor conducted a variety of explosives, propellants and pyrotechnics tests at the site from 1969 until August 1980, prior to the establishment of MSAAP. Burial pits A and B contain shipping containers and test residue such as scrap metals, canisters, dunnage, and drums. Burial pit C is a lime pit used to neutralize sulfuric acid remaining after nitrator studies. The area is currently undeveloped. An ordnance investigation of the site was conducted by NASA from January to June 2000 that included surface clearance, brush clearing, land surveying, geophysical mapping, and intrusive OE investigations.

STATUS

RAC Score: 2

CONTAMINANTS: UXO

MEDIA OF CONCERN: Soil

PHASES	Start	End
PA	200310	200312
SI	200610	200809
RI/FS	201410	201509
RD	201510	201609
RA(C)	201610	201709
RA(O)	201710	203209
LTM	203209	204709

RC Expected: 203209

CLEANUP STRATEGY

Additional site investigation is planned. Remedial actions, such as waste removal, UXO clearance and land use controls, may be needed. This is a NASA Stennis responsibility.

MSAAP-002-R-01
SPIN LAUNCH SITE

SITE DESCRIPTION

The Spin Launch Site, which is part of an area known as test area 9400, is located in the southeastern portion of the MSAAP. The site was used to perform explosive quality assurance testing of the M42 and M46 grenades, which go into the 155-MM M42 projectile. The grenade fuze and arming mechanism was tested by loading grenades into a spin gun and launching them. The penetration test included placing grenades on blocks of steel to see the penetration through the armor plate when detonated. The area is now undeveloped and fenced with locked gates and security control. No evidence was found to indicate a UXO survey or remediation has been performed over the area.

STATUS

RAC Score: 3

CONTAMINANTS: UXO

MEDIA OF CONCERN: Soil

PHASES	Start	End
PA	200310	200312
SI	200610	200809
RI/FS	201410	201509
RD	201510	201609
RA(C)	201610	201709
LTM	201710	204709

RC Expected: 201709

CLEANUP STRATEGY

Additional site investigation is planned. Remedial actions, such as waste removal, UXO clearance, and land use controls.

Environmental Response Complete

AEDB-R Number	Title	RC Date
MSAAP-001	MSAAP ACTIVE SANITARY LANDFILL	199008
MSAAP-002	FORMER KELLAR RANGE DISPOSAL AREA 1	199008
MSAAP-003	FORMER KELLAR RANGE AREA 2	199008
MSAAP-004	FORMER KELLAR TEST RANGE OB/OD GRND	199008
MSAAP-005	FORMER KELLAR RANGE SCRAPE METAL PILE	199008
MSAAP-006	EXPLOSIVE WASTE INCINERATOR	199008
MSAAP-007	CONTAMINATED WASTE PROCESSOR	199008
MSAAP-008	MSAAP SANITARY STP	199008
MSAAP-009	INDUSTRIAL WASTEWATER STP	199008
MSAAP-010	CWP WASTEWATER TREATMENT FACILITY	199008
MSAAP-011	DRUM STG AREA HAZ WST	199008
MSAAP-012	DRUM STG AREA	199008
MSAAP-013	IWTP DRUM HANDLING AREA	199008
MSAAP-014	PROJECTILE METAL PARTS AREA	199008
MSAAP-015	CARGO METAL PARTS AREA	199008
MSAAP-016	LOAD, ASSEMBLE & PACK AREA	199008
MSAAP-017	FORMER STEAM PLANT	199008
MSAAP-018	CEC LABORATORY	199008
MSAAP-019	QA LABORATORY BLDGS #9100, 9101	199008
MSAAP-020	FLUE GAS DESULFURIZATION LAB	199008
MSAAP-021	LAP LABORATORY	199008
MSAAP-022	MAINTENANCE AREA	199008
MSAAP-023	INDOOR TEST FACILITY (9400 AREA)	199008
MSAAP-024	FLAMMABLE MATERIAL BUILDING	199008
MSAAP-025	600 AREA IGLOOS (30)	199008
MSAAP-026	LAP 300 AREA IGLOOS (9)	199008
MSAAP-027	500 IGLOOS (6)	199008
MSAAP-028	ABOVE FROUND PETROLEUM STORAGE TANKS	199008
MSAAP-029	ABOVE GRND SOLVENT STOR TANK (1)@TANK FRM	199008
MSAAP-030	UNDERGOUND STORAGE TANKS (3)	199008
MSAAP-031	LAP A300 AREA SUMPS (18)	199008
MSAAP-032	FALMMABLE MATERIALS BLDG #9311	199008
MSAAP-033	ABOVE GRND STG TANKS- (1) 15000, (1) 7500 G.	199008
MSAAP-034	OIL SEPARATOR-7000 GAL	199008
MSAAP-035	WASTE ACCUMULATION AREA	199008
MSAAP-036	FORMER COAL RUNOFF BASIN (313800 GAL CAP)	199008
MSAAP-037	MOBILE TOTE TANKS (38)	199008
MSAAP-038	SEPTIC TANK/LEACHFIELD (7)	199008
MSAAP-039	SCRAP METAL WASH AREA	199008
MSAAP-040	VEHICLE WASH RACK	199008
MSAAP-041	VEHICLE WASH AREA-LANDFILL	199008
MSAAP-042	FORMER DRUM STORAGE AREA	199008

Environmental Response Complete

AEDB-R Number	Title	RC Date
MSAAP-043	LIFT STATION (5)	199008
MSAAP-044	ABOVE GRND STG TANKS (6) (INACTIVE)	199008
MSAAP-045	CONSTRUCTION MATERIALS LANDFILL	199008
MSAAP-046	SPILL AREA (CHROMIUM)	199008

Schedule

PAST MILESTONES

MMRP Start Date: 2003

PROJECTED MILESTONES

Phase Completion Milestones: 2017

ROD/DD Approval Dates: 2032

Construction Completion: 2017

Completion Date of all RA(C) Activities: 2017

Completion Date of IRP (including LTM phase): 2047

MISSISSIPPI AAP MMRP SCHEDULE

(based on current funding constraints)

		CURRENT					FUTURE				
AEDB-R#	**PHASE**	**FY06**	**FY07**	**FY08**	**FY09**	**FY10**	**FY11**	**FY12**	**FY13**	**FY14**	**FY15+**
MSAAP-001-R-01	SI										
	RIFS										
	RD										
	RA(C)										
	RA(O)										
	LTM										
MSAAP-002-R-01	SI										
	RIFS										
	RD										
	RA(C)										
	LTM										

Cost

PRIOR YEAR FUNDING

TOTAL: $25,000

CURRENT YEAR FUNDING

FY05: None

FUTURE YEAR FUNDING

TOTAL FUTURE MMRP REQUIREMENTS: $8,046,000

TOTAL MMRP PROGRAM COSTS: $8,071,000

Lack of cleanup issues or activities does not warrant establishment of a RAB.